



**Tufts New England Medical Center Hospitals Program
Tufts New England Medical Center Hospitals
Lemuel Shattuck Hospital**



Transitional Year Residency Program

Goals & Objectives for Infectious Disease Rotation

Location: Lahey Clinic
Tufts-New England Medical Center
Lemuel Shattuck Hospital

Type of Rotation: Elective

Length of Rotation: 4 weeks

Overview

During the rotation in infectious diseases (ID), TY Residents see both inpatient and outpatient consults that have a broad range of infectious disease problems. Residents see a variety of infectious disease presentations, ranging from complicated, hospital-acquired, multi-drug-resistant infections to outpatient consults for fevers of unknown origin or for vector-transmitted infections such as Lyme disease. Residents also are exposed to the primary and longitudinal care of patients with human immunodeficiency virus (HIV) infection. In addition, the rotation offers exposure to a travel clinic for patients traveling abroad to high-risk areas.

Residents participating in the inpatient infectious diseases elective will rotate with an Infectious Diseases fellow, an attending and fourth-year medical students. The on-call attending changes every Thursday, thus giving the resident a chance to work with several different ID specialists. Residents doing the outpatient elective will work one-on-one with the attending in the clinic on any given day.

TY Residents are responsible for performing a full history and physical on new consults, as well as reviewing all available data such as labs, radiology studies, etc. Residents will then present to the on-call attending, with particular emphasis on the differential diagnosis and plan of action. Residents on the inpatient elective are required to review relevant literature and present that review informally on rounds.

Principal teaching and learning activities include consult rounds, the outpatient clinic and the following conferences:

- 1) Microbiology rounds (daily)
- 2) Transplant Conference (Thursdays)
- 3) Infectious Disease Clinical Conference (Thursdays)

Goals

- 1) Understanding how a patient's social history (travel, HIV risk factors, exposures) can have a significant impact on the differential diagnosis and management of infections
- 2) Understanding antibiotic selection and therapy including familiarity with major classes, choosing appropriate antibiotics and monitoring for antibiotic toxicities
- 3) Exposure to a broad range of major syndromes including community and hospital-acquired pneumonia, infective endocarditis, cellulitis, urinary tract infections and the evaluation of fever

- 4) Appropriate use of diagnostic services including gram stain and culture, antimicrobial sensitivity testing and other standard microbiology lab techniques
- 5) Understanding basic principles of infection control such as contact or respiratory isolation and contact tracing
- 6) Exposure to critically ill patients and immunosuppressed patients, as well as an understanding of their specific spectrum of diseases

Principle Educational Goals Based on the ACGME General Competencies

In the tables below, the principle educational goals of the Infectious Disease curriculum are listed for each of the six ACGME competencies:

- 1) Patient Care
- 2) Medical Knowledge
- 3) Practice-Based Learning and Improvement
- 4) Interpersonal and Communication Skills
- 5) Professionalism
- 6) Systems-Based Practice

1) Patient Care

Objective	Learning Environment	Evaluation Method
Perform a comprehensive history and physical with particular attention to risk factors for infection and resistant organisms	Consult rounds Outpatient clinic	Global assessment Small group participation
Formulate a management plan	Consult rounds Outpatient clinic	Global assessment Small group participation
Clearly document patient management in the medical record	Consult rounds Outpatient clinic	Global assessment

2) Medical Knowledge

Objective	Learning Environment	Evaluation Method
Recognize how exposure history determines patient care	Consult rounds Outpatient clinic Assigned readings	Global assessment Small group participation
Use diagnostics appropriately	Consult rounds Outpatient clinic Micro rounds	Global assessment Small group participation
Recognize major infectious clinical syndromes	Consult rounds Outpatient clinic	Global assessment Small group participation
Use antibiotics appropriately	Consult rounds Outpatient clinic ID clinical conference	Global assessment Small group participation
Recognition and management of antibiotic toxicities	Consult rounds Outpatient clinic ID clinical conference Assigned readings	Global assessment Small group participation

3) Practice-based Learning and Improvement

Objective	Learning Environment	Evaluation Method
Be able to perform a literature search to answer clinical questions	Consult rounds Outpatient clinic ID Clinical conference	Global assessment Small group participation
Be able to interpret microbiological data such as pathogen identification and antimicrobial sensitivities	Consult rounds Outpatient clinic Micro rounds	Global assessment Small group participation
Facilitate team member education	Consult rounds Outpatient clinic Micro rounds	Global assessment Small group participation

4) Interpersonal and Communications Skills

Objective	Learning Environment	Evaluation Method
Communicate a plan of action and follow-up effectively to patients and other team members	Consult rounds Outpatient clinic	Global assessment Small group participation
Communicate potential risks of therapy including antibiotic toxicities to patients and their caretakers	Consult rounds Outpatient clinic	Global assessment
Relate microbiology findings to other team members	Consult rounds Outpatient clinic	Global assessment Small group participation

5) Professionalism

Objective	Learning Environment	Evaluation Method
Interact with patients, colleagues and hospital staff in a respectful manner	Consult rounds Outpatient clinic Micro rounds ID clinical conference Transplant conference	Global assessment Small group participation
Maintain patient confidentiality and HIPAA guidelines	Consult rounds Outpatient clinic Micro rounds ID clinical conference Transplant conference	Global assessment Small group participation

6) Systems-Based Practice

Objective	Learning Environment	Evaluation Method
Mobilize vagal nerve activity (VNA) and other services to provide outpatient antibiotics	Consult rounds Outpatient clinic	Global assessment
Work with infection control practitioners as part of an interdisciplinary team	Consult rounds Outpatient clinic	Global assessment Small group participation